

WHAT IS CLAIMED IS:

- 1 1. A device for mixing a material, the device comprising:
2 a base;
3 a first linkage coupled to the base, the first linkage comprising at least two
4 bars coupled together via at least one joint, the first linkage configured to contact a first
5 plunger of a first syringe to move a material from a first container through a conduit to a
6 second container; and
7 a second linkage coupled to the base, the second linkage comprising at least
8 two bars coupled together via at least one joint, the second linkage configured to contact a
9 second plunger of the second container to move the material from the second container
10 through the manifold to the first container.
- 1 2. The device of claim 1, wherein the device is configured to mix the
2 material by movement of the material between the first and second containers via the
3 conduit.
- 1 3. The device of claim 1, wherein the device is configured to mix a
2 first material contained in the first container with a second material contained in the
3 second container by movement of the first and second materials between the first and
4 second containers via the conduit.
- 1 4. The device of claim 1, wherein the two bars and joint of the first
2 linkage comprise a first rocker bar pivotally coupled with a first coupler bar via a first
3 rocker-coupler joint.
- 1 5. The device of claim 4, wherein the first rocker bar is pivotally
2 coupled with the base, and a first end of the first coupler bar is in translational cooperation
3 with the base.
- 1 6. The device of claim 1, wherein the two bars and joint of the second
2 linkage comprise a second rocker bar pivotally coupled with a second coupler bar via a
3 second rocker-coupler joint.
- 1 7. The device of claim 6, wherein the second rocker bar is pivotally
2 coupled with the base, and a first end of the second coupler bar is in translational
3 cooperation with the base.

1 8. The device of claim 4, wherein the first linkage comprises a first
2 linkage geometry such that activation of the first linkage is accomplished by a force
3 applied at a handle end of the first rocker bar, the force having a primary vector
4 substantially orthogonal to a resting plane of the base.

1 9. The device of claim 8, wherein the first linkage geometry ensures
2 that the primary vector is sufficient to maintain the position of the base on a resting
3 surface during operation of the device.

1 10. The device of claim 6, wherein the second linkage comprises a
2 second linkage geometry such that activation of the second linkage is accomplished by a
3 force applied at a handle end of the second rocker bar, the force having a primary vector
4 substantially orthogonal to a resting plane of the base.

1 11. The device of claim 6, wherein the second linkage geometry ensures
2 that the primary vector is sufficient to maintain the position of the base on a resting
3 surface during operation of the device.

1 12. The device of claim 1, wherein the conduit comprises a tube.

1 13. The device of claim 1, wherein the conduit comprises a manifold.

1 14. The device of claim 1, wherein at least one of the first and second
2 containers comprises a syringe.

1 15. A device for mixing a material, the device comprising:
2 a base;
3 a first linkage coupled with the base, the first linkage configured to move a
4 first material from a first container to a second chamber via a conduit;
5 a second linkage coupled with the base, the second linkage configured to
6 move the material from the second container via the conduit to the first container.

1 16. The device of claim 15, wherein the device is configured to mix the
2 first material contained in the first container with a second material contained in the
3 second container, and wherein the movement of the first and second materials between the
4 first and second containers contributes to the mixing of the first and second materials.

1 17. The device of claim 16, wherein the first container comprises a first
2 syringe and the second container comprises a second syringe, and wherein the first linkage
3 is configured to drive a first plunger of the first syringe and the second linkage is
4 configured to drive a second plunger of the second syringe.

1 18. The device of claim 17, wherein the first linkage comprises a first
2 rocker bar pivotally coupled with a first coupler bar via a first rocker-coupler joint.

1 19. The device of claim 18, wherein the first rocker bar is pivotally
2 coupled with the base, and a first end of the first coupler bar is in translational cooperation
3 with the base.

1 20. The device of claim 17, wherein the second linkage comprise a
2 second rocker bar pivotally coupled with a second coupler bar via a second rocker-coupler
3 joint.

1 21. The device of claim 20, wherein the second rocker bar is pivotally
2 coupled with the base, and a first end of the second coupler bar is in translational
3 cooperation with the base.

1 22. The device of claim 18, wherein the first linkage comprises a first
2 linkage geometry such that activation of the first linkage is accomplished by a force
3 applied at a handle end of the first rocker bar, the force having a primary vector
4 substantially orthogonal to a resting plane of the base.

1 23. The device of claim 22, wherein the first linkage geometry ensures
2 that the primary vector is sufficient to maintain the position of the base on a resting
3 surface during operation of the device.

1 24. The device of claim 20, wherein the second linkage comprises a
2 second linkage geometry such that activation of the second linkage is accomplished by a
3 force applied at a handle end of the second rocker bar, the force having a primary vector
4 substantially orthogonal to a resting plane of the base.

1 25. The device of claim 24, wherein the second linkage geometry
2 ensures that the primary vector is sufficient to maintain the position of the base on a
3 resting surface during operation of the device.

1 26. A device for mixing a material, the device comprising:
2 a base;
3 a first linkage coupled to the base, the first linkage comprising at least two
4 bars coupled together via at least one joint, the first linkage configured to contact a first
5 plunger of a first syringe to move a material from a first syringe through a conduit to a
6 second syringe; and
7 a second linkage coupled to the base, the second linkage comprising at
8 least two bars coupled together via at least one joint, the second linkage configured to
9 contact a second plunger of the second syringe to move the material from the second
10 syringe through the conduit to the first syringe; and
11 a plurality of feet on a resting surface of the base, each foot comprising a
12 retractable point and a contact patch, the retractable point and the contact patch adapted to
13 contact a surface and inhibit movement of the device on the surface;
14 wherein the movement of the material between the first and second
15 syringes contributes to the mixing of the material.

1 27. A system for mixing a first material with a second material, the .
2 system comprising:
3 a) a first linkage having at least two bars and at least one joint;
4 b) a second linkage having at least two bars and at least one joint;
5 c) a first syringe containing a first material;
6 d) a second syringe containing a second material; and
7 e) a base coupled with the first linkage and the second linkage;
8 wherein the first linkage is configured to contact a first plunger of the first syringe
9 to move the first material through a conduit to a second syringe; the second linkage is
10 configured to contact a second plunger of the second syringe to move the first material and
11 the second material through the conduit to the first syringe; and the movement of the first
12 and second materials between the first and second syringes contributes to the mixing of
13 the materials.

1 28. A kit comprising:
2 a mixer comprising:
3 a base;
4 a first linkage coupled to the base, the first linkage comprising at
5 least two bars coupled together via at least one joint, the first
6 linkage configured to contact a first activator of a first container
7 to move a material from a first container through a conduit to a
8 second container;
9 a second linkage coupled to the base, the second linkage comprising
10 at least two bars coupled together via at least one joint, the
11 second linkage configured to contact a second activator of the
12 second container to move the material from the second container
13 through the conduit to the first container; and
14 instructions to use the mixer for mixing at least one material.